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(54) Title: ANALYSIS AND SCREENING OF SOLID FORMS USING THE ATOMIC PAIR DISTRIBUTION FUNCTION

(57) Abstract: A method that comprises providing a PDF trace of a first sample of a substance, providing a PDF trace of a second sample of the substance, and comparing the PDF traces to determine whether the substance of the first sample and the substance of the second sample have the same or different solid forms. This embodiment may be used, for example, to distinguish one solid form of a compound from another, to screen for new solid forms of a compound, or to determine whether a disordered crystalline compound has the same solid form as another crystalline sample of the compound.

